



**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**  
21865 Copley Dr. Diamond Bar, CA 91765-4182

**MONITORING AND ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**

(Page 1 of 3)

**To:** Victor Yip  
Sr. Enforcement Manager  
Compliance & Enforcement

**Laboratory No.** 1808905-01  
**Requested By** Kraig Morris

**Rule No.** R402

**Sampling Location**

Offshore Odor Event 3/29/18 (Outside)  
Edinger Ave & Montego Drive  
Huntington Beach, CA 92649

**ST No.** NA

**Report Created** 08/23/2018

---

**ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS, AND RESULTS**

**Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID**

**See attached results and sample information.**

**Reviewed By:** \_\_\_\_\_

Stephen Dutz  
Principal A.Q. Chemist  
Laboratory Services

**Date Reviewed:** \_\_\_\_\_

08/24/18

**Approved By:** \_\_\_\_\_

Aaron Katzenstein, Ph.D.  
Senior Manager  
Laboratory Services  
(909) 396-2219

**Date Approved:** \_\_\_\_\_

8/24/18



**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**  
**21865 Copley Dr. Diamond Bar, CA 91765-4182**

**MONITORING AND ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**

(Page 2 of 3)

**Laboratory No.** 1808905-01  
**Sample Description** SILCO Canister E0300, SILCO  
**Sample Comments** Rotten egg odor 3 out of 5, detected near intersection of Edinger Ave & Montego Dr in response to complaint #286905. Temperature 64F, 5-6mph SW wind.  
**Sample Date 03/29/2018**                      **Received Date 03/30/2018**                      **Analyzed Date 04/06/2018**

**Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID**

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
Total NMOC, ppbC	3700	0.1	0.3	100-700
Total Calibrated, ppbC	3500	0.1	0.3	
Ethane (FID), ppbv	150	0.05	0.2	
Ethylene (FID), ppbv	3.0	0.05	0.2	0.7-4.1
Acetylene (FID), ppbv	1.7	0.05	0.2	
Propane (FID), ppbv	350	0.03	0.1	0.4-5.0
Propylene (FID), ppbv	0.7	0.03	0.1	0.2-0.7
Isobutane (FID), ppbv	70	0.02	0.08	0.2-0.9
n-Butane (FID), ppbv	210	0.02	0.08	0.3-1.7
1-Butene (FID), ppbv	0.3	0.02	0.08	0.1-0.3
trans-2-Butene (FID), ppbv	<i>J (0.06)</i>	0.02	0.08	
cis-2-Butene (FID), ppbv	<i>J (0.07)</i>	0.02	0.08	
Isopentane (FID), ppbv	59	0.02	0.06	
1-Pentene (FID), ppbv	0.07	0.02	0.06	
n-Pentane (FID), ppbv	65	0.02	0.06	0.1-0.6
Isoprene (FID), ppbv	1.3	0.02	0.06	
trans-2-Pentene (FID), ppbv	0.1	0.02	0.06	
cis-2-Pentene (FID), ppbv	<i>J (0.05)</i>	0.02	0.06	
2,2-Dimethylbutane (FID), ppbv	0.6	0.02	0.05	
Cyclopentane (FID), ppbv	2.0	0.02	0.06	
2,3-Dimethylbutane (FID), ppbv	1.9	0.02	0.05	
2-Methylpentane (FID), ppbv	11	0.02	0.05	
3-Methylpentane (FID), ppbv	8.0	0.02	0.05	
1-Hexene (FID), ppbv	<i>J (0.02)</i>	0.02	0.05	<0.1-0.1
n-Hexane (FID), ppbv	17	0.02	0.05	0.1-0.2
Methylcyclopentane (FID), ppbv	2.9	0.02	0.05	
2,4-Dimethylpentane (FID), ppbv	0.5	0.01	0.04	
Benzene (FID), ppbv	1.0	0.02	0.05	0.1-0.5
Cyclohexane (FID), ppbv	1.5	0.02	0.05	
2-Methylhexane (FID), ppbv	1.0	0.01	0.04	



**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**  
**21865 Copley Dr. Diamond Bar, CA 91765-4182**

**MONITORING AND ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**

(Page 3 of 3)

**Laboratory No.** 1808905-01 - continued  
**Sample Description** SILCO Canister E0300, SILCO  
**Sample Comments** Rotten egg odor 3 out of 5, detected near intersection of Edinger Ave & Montego Dr in response to complaint #286905. Temperature 64F, 5-6mph SW wind.  
**Sample Date** 03/29/2018      **Received Date** 03/30/2018      **Analyzed Date** 04/06/2018

**Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID**

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
2,3-Dimethylpentane (FID), ppbv	2.0	0.01	0.04	
3-Methylhexane (FID), ppbv	2.4	0.01	0.04	
2,2,4-Trimethylpentane (FID), ppbv	0.8	0.01	0.04	
n-Heptane (FID), ppbv	4.3	0.01	0.04	0.1-0.2
Methylcyclohexane (FID), ppbv	1.2	0.01	0.04	
2,3,4-Trimethylpentane (FID), ppbv	0.1	0.01	0.04	
Toluene (FID), ppbv	1.9	0.01	0.04	0.1-0.6
2-Methylheptane (FID), ppbv	0.7	0.01	0.04	
3-Methylheptane (FID), ppbv	0.5	0.01	0.04	
n-Octane (FID), ppbv	1.1	0.01	0.04	<0.1-0.3
Ethylbenzene (FID), ppbv	0.3	0.01	0.04	0.1-0.2
m+p-Xylene (FID), ppbv	1.0	0.01	0.04	0.1-0.2
Styrene (FID), ppbv	0.3	0.01	0.04	<0.1-0.2
o-Xylene (FID), ppbv	0.3	0.01	0.04	0.1-0.2
n-Nonane (FID), ppbv	0.4	0.01	0.03	<0.1-0.1
Isopropylbenzene (FID), ppbv	0.06	0.01	0.03	
n-Propylbenzene (FID), ppbv	0.04	0.01	0.03	
m-Ethyltoluene (FID), ppbv	0.1	0.01	0.03	
p-Ethyltoluene (FID), ppbv	0.05	0.01	0.03	
1,3,5-Trimethylbenzene (FID), ppbv	0.06	0.01	0.03	
o-Ethyltoluene (FID), ppbv	0.05	0.01	0.03	
1,2,4-Trimethylbenzene (FID), ppbv	0.2	0.01	0.03	
n-Decane (FID), ppbv	0.2	0.01	0.03	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	0.07	0.01	0.03	
m-Diethylbenzene (FID), ppbv	J (0.02)	0.01	0.03	
p-Diethylbenzene (FID), ppbv	J (0.03)	0.01	0.03	
n-Undecane (FID), ppbv	0.08	0.009	0.03	<0.1
n-Dodecane (FID), ppbv	0.04	0.008	0.02	<0.1

\* J = Value is between method detection and reporting limits.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
SAMPLE ANALYSIS REQUEST**

- DISTRICT INFORMATION
- INVOICE SOURCE
- LAP AUDIT

LABORATORY NO 1808905-01

TO: SCAQMD LAB:  OTHER:

SOURCE NAME: offshore odor event 3/29/18 (outside) I.D. No. \_\_\_\_\_

Source Address: Edinger Ave f Montego Dr. City: Huntington Beach

Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Person: Kraig Morris Title: Air Quality Inspector Tel: (949) 397-3279

Analysis Requested by: Kraig Morris Date: 3/30/18

Approved by: MARK WINDHAM Office: C&E Budget #: 60-375

REASON REQUESTED: Court/Hearing Board  Permit Pending  Hazardous/Toxic Spill

Suspected Violation Rule(s) 402 Other

Sample Collected by: Kraig Morris Date: 3/29/18 Time: 1520

**SAMPLE DESCRIPTION:**

Rotten Egg odor was detected near the intersection of Edinger Ave f Montego Dr. in Huntington Beach in response to complaint # 286905. Rotten Egg odor was a 3 out of 5.  
T = 64°F, sunny, 56 mph 210° SW wind.

**REQUESTED ANALYSIS:**

VOC ANALYSIS  
Sample CAV ID# E0300

Relinquished by	Received by	Firm/Agency	Date	Time
<u>[Signature]</u> Kraig Morris	<u>H Phillipson</u>	<u>SCAQMD Lab</u>	<u>3/30/18</u>	<u>0830</u>

Remarks: